

- NOTES:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  3. KEY DIMENSIONS EQUAL S x S x ES (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS					P-FLANGE DIMENSIONS							SHAFT EXTENSION DIMENSIONS									
	AG	C	P	OX	BU	BB	BE	BF	BD	BV	AK	AJ	AH	EU	U	V	R	S	ES	EW	EX	
320HP12	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	12.0	16.7	8.25	9.125	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320LP12	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	12.0	16.7	8.25	9.125	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320HP16	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	16.5	16.7	13.50	14.75	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320PH16	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	16.5	16.7	13.50	14.75	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320LP16	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	16.5	16.7	13.50	14.75	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320LPA12	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	12.0	16.7	8.25	9.125	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	
320LPA16	39.7	44.2	16.3	19.0	45°	0.25	1.1	0.69	16.5	16.7	13.50	14.75	4.50	1.25	1.625	4.50	1.416	0.375	3.03	0.375	0.75	

CONDUIT BOX DIMENSIONS						MAXIMUM WEIGHT
AA(NPT)	AB	AC	AF	XL	XN	
2.00	14.4	11.1	5.2	9.1	7.8	730 lbs.

FRAME SIZE	BEARINGS	
	LS	OS
HP	6312C3	6311C3
LP	6312C3	7311BEGAM x 2

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: VERTICAL SOLID SHAFT ROUND BODY P-FLANGE

COMMENTS: \_\_\_\_\_

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TAG NO's: \_\_\_\_\_

STANDARD (NO AUX. BOXES)

RTD AUX. BOX

SPACE HEATER AUX. BOX

BEARING RTD's

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  CERTIFIED

**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED  
VERTICAL SOLID SHAFT ROUND BODY P-FLANGE  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

**XT SERIES**

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: 0306FTVB3RX-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	6	1175	320LP16	460	60	3	37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	93.6	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	30	22.4	37.0	93.6	81.2
¾ Load	22.50	16.8	29.6	94.0	77.2
½ Load	15.00	11.2	23.2	93.7	68.1
¼ Load	7.50	5.6	18.5	86.2	43.8
No Load			14.0		4.9
Locked Rotor			217.00		45.9

Torque				Rotor wk <sup>2</sup>
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft <sup>2</sup> )
134	245	205	250	11.16

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	19	-	6312C3	7311B	

\*Bearings are the only recommended spare part(s).

**Motor Options:**  
Product Family:EQPIII Vertical Medium Thrust  
Mounting:16 P-Base (280-440 Frame),Shaft:LP Solid Shaft Medium Thrust

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

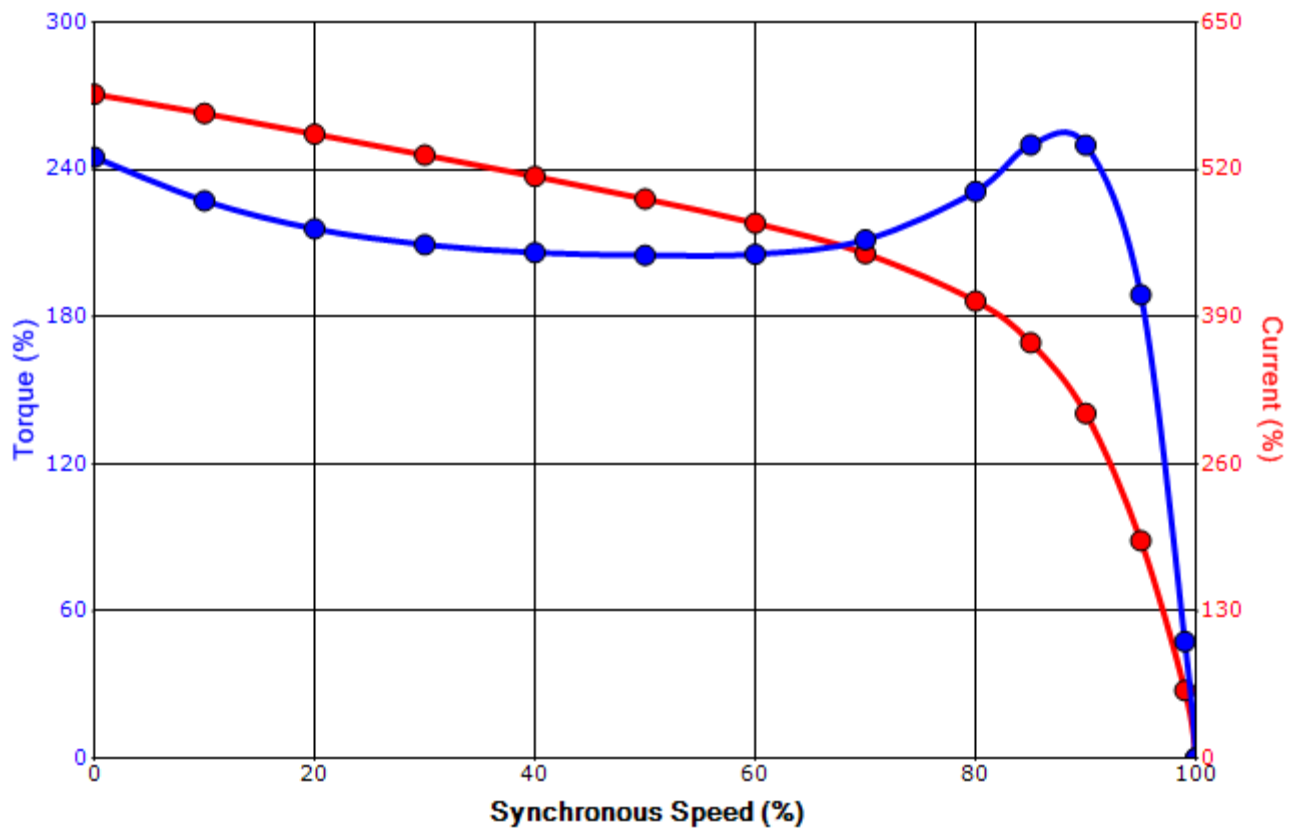
Engineering	gminetos	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/24/2013	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 0306FTVB3RX-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	6	1175	320LP16	460	60	3	37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	93.6	B	G	40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
217.00	11.16	134	245	205			250	

**Design Values**



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

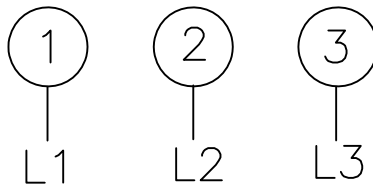
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Engineering	gminetos	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/24/2013	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

### Motor Connection Diagram 3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one  
of them will be labeled with the appropriate lead number.